



THE UNITED STATES PATENT AND TRADEMARK OFFICE

Appl. No. : 10/665,169  
Inventor : SNELL, Alan Kay  
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**RULE 131 SUPPLEMENTAL DECLARATION BY ALAN KAY SNELL**

Via U.S. Express Mail

Mail Stop Amendment  
Commissioner for Patents  
PO Box 1450  
Alexandria, VA 22313-1450

I, Alan Kay Snell, hereby declare under penalty of perjury:

1. On February 26, 2003, I mailed via U.S. Certified Mail a provisional patent application to the U.S. Patent & Trademark Office ("USPTO"), for which I am identified as the inventor.
2. This provisional patent application was received by the USPTO on March 4, 2003, and received this date as the official filing date. The USPTO further assigned serial number 60/451,433 to this provisional application (hereinafter "Provisional Application").
3. The Provisional Application contained four pages of color reproductions of sixteen color photographs (hereinafter the "Color Photographs").
4. A true and correct copy of the four pages containing the Color Photographs is found in **Exhibit 1** attached hereto.
5. The four pages containing the Color Photographs were included in the count of the number of pages of drawings shown on the provisional cover sheet, which is identified as being a part of the application.

6. The Color Photographs each were numbered as Photo #1 through Photo #16, and reference was made in the written description of the Provisional Application to individual photos of the Color Photographs.
7. On September 18, 2003, the law firm of Thorpe North & Western LLP filed nonprovisional patent application serial number 10/665,169 (the "169 Application"), for which I am identified as the inventor.
8. I understand that each of the claims currently presented in the above-identified application after amendment, which claims are attached hereto in **Exhibit 12**, legally defines an invention (hereinafter collectively "Inventions").
9. For each Invention, I conceived of the Invention on or before February 13, 2003, and I either reduced each such Invention to practice on or before February 13, 2003, or I exercised diligence in reducing each such Invention to practice after February 13, 2003.
10. Direct and circumstantial documentary evidence of the conception and reduction to practice of each of the Inventions is attached hereto as Exhibits 2-6 and 9, which represent photographs that were taken prior to February 13, 2003 ("The Joey Photographs").
11. The Joey Photographs illustrate a "Joey" diaper changing kit that includes a vacuum-packed diaper and accessories for changing a diaper.
12. The photograph of **Exhibit 2** is a perspective view of the bottom of the "Joey" box illustrating a resealable tab for accessing wipes.
13. The photograph of **Exhibit 3** is a perspective view of the bottom of the "Joey" box illustrating the resealable tab being pulled back to expose a wipe.
14. The photograph of **Exhibit 4** is a perspective view of the top of the "Joey" box illustrating the removal of a tray in which the vacuum-packed diaper and accessories are contained.
15. The photograph of **Exhibit 5** illustrates the complete removal of the tray from the "Joey" box of the photograph of Exhibit 4.
16. The photograph of **Exhibit 6** illustrates contents of the "Joey" box including the vacuum-packed diaper in a reduced configuration. The same diaper in a nominal configuration further is illustrated in the photograph of Exhibit 6 to demonstrate the differences between the reduced configuration and nominal configuration of the diaper.

17. **Exhibit 7** represents the enlargement of the portion of the photograph of Exhibit 6 for viewing of the top of the "Joey" box illustrating a copyright notice of 2002 by Eagle Rock Design. Eagle Rock Design was a name under which I was developing the vacuum-packed diaper changing kit.
18. **Exhibit 8** represents the enlargement of the portion of the photograph of Exhibit 6 for better comparison of the nominal configuration of the diaper versus the reduced configuration of the vacuum-packed diaper. Exhibit 8 further illustrates graphics printed on the diaper that are viewable through the encasement of the vacuum-packed diaper.
19. The photograph of **Exhibit 9** again illustrates contents of the "Joey" box and includes two "Joey" boxes comparing the front and back sides thereof.
20. **Exhibit 10** represents the enlargement of the portion of the photograph of Exhibit 9 illustrating the graphics of the diaper being viewable through the encasement of the vacuum-packed diaper.
21. **Exhibit 11** is a document created in 2002 that illustrates the dimensions of the tray of the "Joey" box as illustrated in the photographs of Exhibits 2-6 and 9.
22. The vacuum-packed diaper of the Joey Photographs is an unsoiled, packaged diaper that has been vacuum sealed within a substantially air impermeable and moisture impermeable encasement. The diaper further is the only diaper disposed within the interior of the sealed substantially air impermeable encasement. The sealed substantially air impermeable encasement maintains at least a partial vacuum state in the interior space, and the encasement is sealed after evacuation of air and creation of at least a partial vacuum state within the interior space of the encasement. The substantially air impermeable encasement is formed of a flexible material.
23. When individually vacuum-packing diapers in 2002 or before, I sometimes had access to and utilized a vacuum-sealing machine as represented in the Color Photographs that were included in the Provisional Application. In utilizing such a vacuum-sealing machine, the diaper was disposed within an air impermeable encasement which was placed under the lid of the vacuum-sealing machine. The lid was then lowered to create a chamber and a vacuum was then drawn within the chamber. The vacuum that was drawn was less than 20 millibars. A vacuum sometimes was drawn to less than 10 millibars, and the pressure within the interior space of the encasement was on the order of magnitude of a millibar.

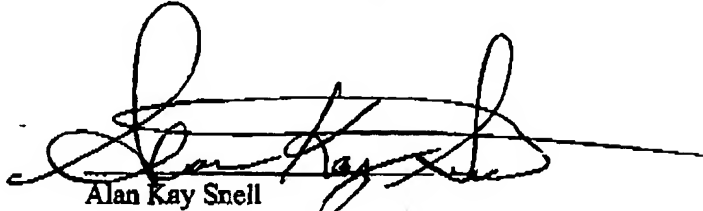
After sealing of the encasement within the vacuum chamber, air was restored to the chamber and the lid was raised. It is my understanding that the sealed diaper is reduced in volume and size when the air is restored to the chamber and the lid is lifted as a result of the increased pressure acting upon the encasement. It further is my understanding that a pressure differential across the sealed substantially air impermeable encasement acts upon the encasement to maintain the diaper in its reduced configuration. Many of the vacuum-packed diapers that I made each had a size no larger than a conventional cigarette pack.

24. The encasement of the vacuum-packed diaper was formed from a flexible material, and the encasement included at least a portion thereof that was transparent such that the diaper and/or accessory were viewable through the encasement. The encasement sometimes further included a tab to facilitate access to the interior space of the encasement for release of the diaper.
25. When individually vacuum-packing diapers in 2002 or before, I experimented with various diaper configurations within the encasement. I sometimes rolled the diaper into a cylindrical shape and then vacuum-sealed the diaper within the substantially air impermeable encasement. Other times I folded the diaper so that the diaper had a substantially rectangular shape defining a length, a width, and a thickness. Sometimes I folded the diaper at least once along a dimension defining said length. Sometimes I folded the diaper at least twice along a dimension defining said length. Sometimes the vacuum-packed diapers had a reduced length and width each of which was less than about 1/2 of the nominal length and width, respectively, of the diaper. Sometimes the vacuum-packed diapers had a reduced length and width each of which was less than about 1/3 of the nominal length and width, respectively, of the diaper. Sometimes the vacuum-packed diapers had a reduced length and width each of which was less than about 1/4 of the nominal length and width, respectively, of the diaper.

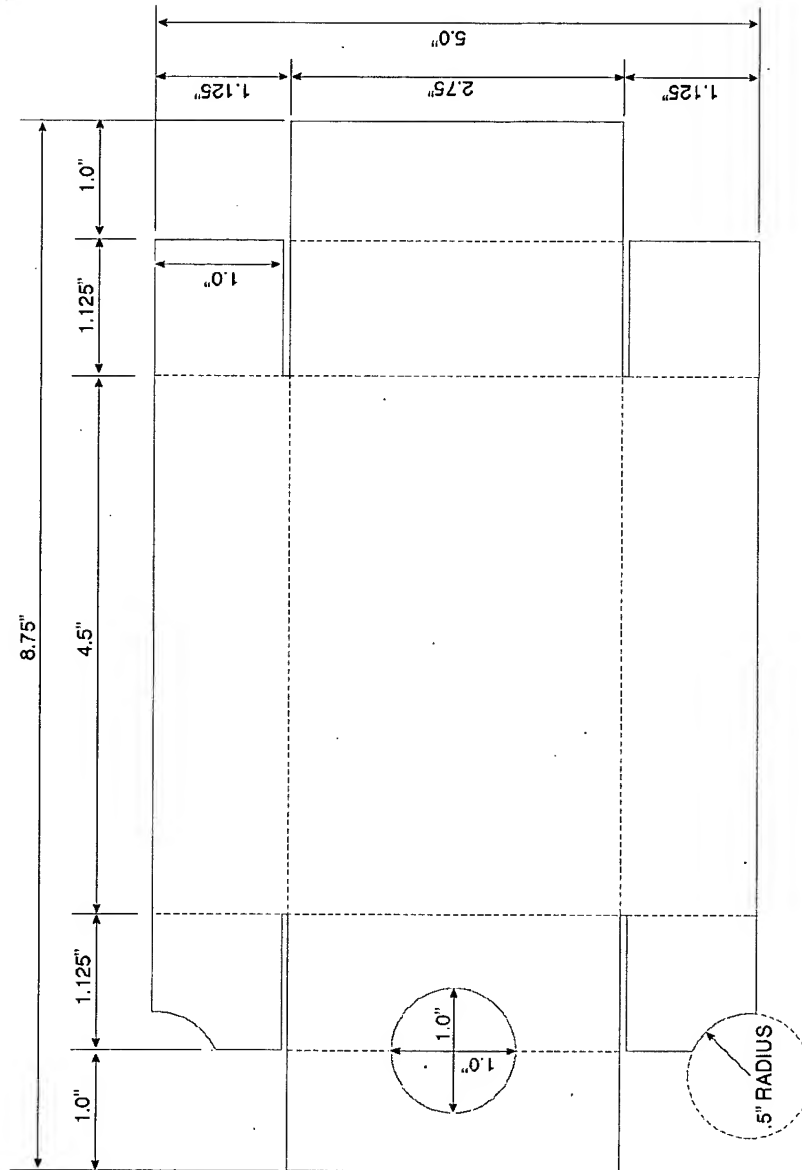
**[Signature Page Follows]**

I hereby declare, under penalty of perjury, that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code.

6/30/2005  
Date

  
Alan Kay Snell

# INNER BOX



CLIENT WOULD LIKE THE INNER BOX TO BE 110 LB COVER STOCK  
EITHER FLOOD PRINTED BOTH SIDES PMS 2725, OR PRINTED ON  
A 110 LB COVER STOCK THAT MATCHES CLOSELY TO THAT COLOR

1-41. (canceled)

42. A packaged diaper comprising:

- (a) a sealed substantially air impermeable encasement completely enclosing an interior space with at least one airtight seal; and
- (b) a compressed absorbent diaper disposed within said interior space of said sealed substantially air impermeable encasement;
- (c) wherein said compressed absorbent diaper is unsoiled;
- (d) wherein, prior to packaging, said absorbent diaper has a nominal volume when unrestrained;
- (e) wherein, when disposed within said interior space of said sealed substantially air impermeable encasement, said compressed absorbent diaper has a reduced volume that is less than the nominal volume of said absorbent diaper when unrestrained prior to packaging;
- (f) wherein said compressed absorbent diaper is the only diaper disposed within said interior space of said sealed substantially air impermeable encasement; and
- (g) wherein said interior space has at least a partial vacuum, whereby a pressure differential acts upon said encasement and said diaper to maintain said diaper in said compressed state, said encasement having been sealed after creation of at least a partial vacuum within said interior space of said encasement.

43. The packaged diaper of claim 42, wherein a pressure within said interior space of said sealed substantially air impermeable encasement is on the order of magnitude of a millibar (mbar) .

44. A packaged diaper comprising:

- (a) a sealed substantially air impermeable encasement completely enclosing an interior space with at least one airtight seal; and
- (b) a compressed absorbent diaper disposed within said interior space of said sealed substantially air impermeable encasement;
- (c) wherein said compressed absorbent diaper is unsoiled;

- (d) wherein, prior to packaging, said absorbent diaper has a nominal volume when unrestrained;
- (e) wherein, when disposed within said interior space of said sealed substantially air impermeable encasement, said compressed absorbent diaper has a reduced volume that is less than the nominal volume of said absorbent diaper when unrestrained prior to packaging;
- (f) wherein said compressed absorbent diaper is the only diaper disposed within said interior space of said sealed substantially air impermeable encasement; and
- (g) wherein said interior space has at least a partial vacuum, whereby a pressure differential acts upon said encasement and said diaper to maintain said diaper in said compressed state, said encasement having been sealed after creation of at least a partial vacuum within said interior space of said encasement, said interior space having a pressure on the order of magnitude of a millibar (mbar).

45-46. (canceled)

47. A packaged diaper comprising:

- (a) a sealed substantially air impermeable encasement completely enclosing an interior space with at least one airtight seal; and
- (b) a compressed absorbent diaper disposed within said interior space of said sealed substantially air impermeable encasement;
- (c) wherein said compressed absorbent diaper is unsoiled;
- (d) wherein, prior to packaging, said absorbent diaper has a nominal volume when unrestrained;
- (e) wherein, when disposed within said interior space of said sealed substantially air impermeable encasement, said compressed absorbent diaper has a reduced volume that is less than the nominal volume of said absorbent diaper when unrestrained prior to packaging;
- (f) wherein said compressed absorbent diaper is the only diaper disposed within said interior space of said sealed substantially air impermeable encasement; and



- (g) wherein said interior space has at least a partial vacuum, whereby a pressure differential acts upon said encasement and said diaper to maintain said diaper in said compressed state, said encasement having been sealed after creation of at least a partial vacuum within said interior space of said encasement, said interior space having a pressure between about 5 millibars and about 1 millibar.

48-49. (canceled)

50. A packaged diaper, comprising:

- (a) a sealed substantially air impermeable encasement completely enclosing an interior space with at least one airtight seal; and
- (b) a compressed absorbent diaper disposed within said interior space of said sealed substantially air impermeable encasement;
- (c) wherein said compressed absorbent diaper is unsoiled;
- (d) wherein, prior to packaging, said absorbent diaper has a nominal volume when unrestrained;
- (e) wherein, when disposed within said interior space of said sealed substantially air impermeable encasement, said compressed absorbent diaper has a reduced volume that is less than the nominal volume of said absorbent diaper when unrestrained prior to packaging;
- (f) wherein said compressed absorbent diaper is the only diaper disposed within said interior space of said sealed substantially air impermeable encasement;
- (g) wherein said interior space has at least a partial vacuum, whereby a pressure differential acts upon said encasement and said diaper to maintain said diaper in said compressed state, said encasement having been sealed after creation of at least a partial vacuum within said interior space of said encasement; and
- (h) wherein said compressed diaper disposed within said interior space of said sealed substantially air impermeable encasement includes a configuration that is different from a nominal configuration by at least a lengthwise fold in said diaper.

51. A packaged diaper that is vacuum-packed, comprising:
- (a) a sealed substantially air impermeable encasement completely enclosing an interior space;
  - (b) a compressible absorbent diaper disposed within said interior space of said sealed substantially air impermeable encasement;
  - (c) wherein said compressible absorbent diaper is unsoiled;
  - (d) wherein, prior to packaging, said compressible absorbent diaper has a nominal volume when unrestrained;
  - (e) wherein, when disposed within said interior space of said sealed substantially air impermeable encasement, said compressible absorbent diaper has a reduced volume that is less than the nominal volume of said compressible absorbent diaper when unrestrained prior to packaging;
  - (f) wherein said compressible absorbent diaper is the only diaper disposed within said interior space of said sealed substantially air impermeable encasement; and
  - (g) wherein the vacuum-packed diaper has three dimensions comprising a width, length, and height, and the sum of two of said three dimensions is less than 10 cm with no single dimension of said three dimensions exceeding 10 cm.
52. The packaged diaper of claim 42, wherein said vacuum-packed diaper further comprises a tab that facilitates opening of said sealed substantially air impermeable encasement for release of said compressed absorbent diaper therefrom.
53. The packaged diaper of claim 42, wherein the vacuum-packed diaper has a size no larger than a conventional cigarette package.
54. (canceled)
55. The packaged diaper of claim 42, wherein said sealed substantially air impermeable encasement is formed of a flexible material.
56. The packaged diaper of claim 42, wherein said compressed absorbent diaper disposed within said interior space of said sealed substantially air impermeable encasement comprises a substantially cylindrical shape.

57. The packaged diaper of claim 56, wherein said compressed absorbent diaper is rolled defining said substantially cylindrical shape.
58. The packaged diaper of claim 42, wherein said compressed absorbent diaper disposed within said interior space of said sealed substantially air impermeable encasement comprises a substantially rectangular shape defining a length, a width, and a thickness.
59. The packaged diaper of claim 58, wherein said thickness is less than each of said length and said width, and wherein said compressed absorbent diaper is vacuum-packed within said sealed substantially air impermeable encasement reducing said thickness.
60. The packaged diaper of claim 58, wherein said compressed absorbent diaper is folded at least once along a dimension defining said length.
61. The packaged diaper of claim 58, wherein said compressed absorbent diaper is folded at least twice along a dimension defining said length.
62. The packaged diaper of claim 42, wherein said compressed diaper disposed within said interior space of said encasement has a foldedly reduced length and width each of which is less than about 1/2 of the nominal length and width, respectively, of said diaper.
63. The packaged diaper of claim 42, wherein said compressed diaper disposed within said interior space of said encasement has a foldedly reduced length which is less than about 1/3 of the nominal length of said diaper.
64. The packaged diaper of claim 42, wherein said compressed diaper disposed within said interior space of said encasement has a foldedly reduced length which is less than about 1/4 of the nominal length of said diaper.
- 65-66. (canceled)
67. A packaged diaper comprising:
  - (a) a sealed substantially air impermeable encasement completely enclosing an interior space with at least one airtight seal; and
  - (b) a compressed absorbent diaper disposed within said interior space of said sealed substantially air impermeable encasement;
  - (c) wherein said compressed absorbent diaper is unsoiled;

- (d) wherein, prior to packaging, said absorbent diaper has a nominal volume when unrestrained;
- (e) wherein, when disposed within said interior space of said sealed substantially air impermeable encasement, said compressed absorbent diaper has a reduced volume that is less than the nominal volume of said absorbent diaper when unrestrained prior to packaging;
- (f) wherein said packaged diaper is pocket sized; and
- (g) wherein said interior space has at least a partial vacuum, whereby a pressure differential acts upon said encasement and said diaper to maintain said diaper in said compressed state, said encasement having been sealed after creation of at least a partial vacuum within said interior space of said encasement, said interior space having a pressure on the order of magnitude of a millibar (mbar).

68-69. (canceled)

70. A packaged diaper comprising:

- (a) a sealed substantially air impermeable encasement completely enclosing an interior space with at least one airtight seal; and
- (b) a compressed absorbent diaper disposed within said interior space of said sealed substantially air impermeable encasement;
- (c) wherein said compressed absorbent diaper is unsoiled;
- (d) wherein, prior to packaging, said absorbent diaper has a nominal volume when unrestrained;
- (e) wherein, when disposed within said interior space of said sealed substantially air impermeable encasement, said compressed absorbent diaper has a reduced volume that is less than the nominal volume of said absorbent diaper when unrestrained prior to packaging;
- (f) wherein said packaged diaper is pocket sized;
- (g) wherein said encasement is sealed after evacuation of air from said interior space of said encasement; and
- (h) wherein said interior space has at least a partial vacuum, whereby a pressure differential acts upon said encasement and said diaper to maintain

said diaper in said compressed state, said encasement having been sealed after creation of at least a partial vacuum within said interior space of said encasement, said interior space having a pressure between about 5 millibars and about 1 millibar.

71-72. (canceled)

73. A packaged diaper, comprising:

- (a) a sealed substantially air impermeable encasement completely enclosing an interior space with at least one airtight seal; and
- (b) a compressed absorbent diaper disposed within said interior space of said sealed substantially air impermeable encasement;
- (c) wherein said compressed absorbent diaper is unsoiled;
- (d) wherein, prior to packaging, said absorbent diaper has a nominal volume when unrestrained;
- (e) wherein, when disposed within said interior space of said sealed substantially air impermeable encasement, said compressed absorbent diaper has a reduced volume that is less than the nominal volume of said absorbent diaper when unrestrained prior to packaging;
- (f) wherein said interior space has at least a partial vacuum, whereby a pressure differential acts upon said encasement and said diaper to maintain said diaper in said compressed state, said encasement having been sealed after creation of at least a partial vacuum within said interior space of said encasement;
- (g) wherein said diaper disposed within said interior space of said sealed substantially air impermeable encasement includes a configuration that is different from a nominal configuration by at least a lengthwise fold in said diaper; and
- (h) wherein said packaged diaper is pocket sized.

74. A packaged diaper that is vacuum-packed, comprising:

- (a) a sealed substantially air impermeable encasement completely enclosing an interior space;

- (b) a compressible absorbent diaper disposed within said interior space of said sealed substantially air impermeable encasement;
  - (c) wherein said compressible absorbent diaper is unsoiled;
  - (d) wherein, prior to packaging, said compressible absorbent diaper has a nominal volume when unrestrained;
  - (e) wherein, when disposed within said interior space of said sealed substantially air impermeable encasement, said compressible absorbent diaper has a reduced volume that is less than the nominal volume of said compressible absorbent diaper when unrestrained prior to packaging; and
  - (f) wherein the packaged, vacuum-packed diaper has three dimensions comprising a width, length, and height, and the sum of two of said three dimensions is less than 10 cm with no single dimension of said three dimensions exceeding 10 cm.
75. The packaged diaper of claim 74, wherein said encasement is substantially impermeable to moisture.
76. The packaged diaper of claim 74, wherein printed graphics on said diaper are viewable through said encasement.
77. A packaged diaper comprising:
- (a) a sealed substantially air impermeable encasement completely enclosing an interior space with at least one airtight seal; and
  - (b) a compressed absorbent diaper disposed within said interior space of said sealed substantially air impermeable encasement;
  - (c) wherein said compressed absorbent diaper is unsoiled;
  - (d) wherein said compressed absorbent diaper is the only diaper disposed within said interior space of said sealed substantially air impermeable encasement; and
  - (e) wherein said interior space has at least a partial vacuum, whereby a pressure differential acts upon said encasement and said diaper to maintain said diaper in said compressed state, said encasement having been sealed after creation of at least a partial vacuum within said interior space of said encasement.

78. A packaged diaper comprising:
- (a) a sealed substantially air impermeable encasement completely enclosing an interior space with at least one airtight seal; and
  - (b) a compressed absorbent diaper disposed within said interior space of said sealed substantially air impermeable encasement;
  - (c) wherein said compressed absorbent diaper is unsoiled;
  - (d) wherein said interior space has at least a partial vacuum, whereby a pressure differential acts upon said encasement and said diaper to maintain said diaper in said compressed state, said encasement having been sealed after creation of at least a partial vacuum within said interior space of said encasement; and
  - (e) wherein said diaper in said compressed state has three dimensions comprising a width, length, and height, and the sum of two of said three dimensions is less than 10 cm with no single dimension of said three dimensions exceeding 10 cm.